

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M-00354	Client:	Alaskan Copper Works
Date Received:	05/10/07	Project:	PO# M00354, F&BI 705131
Date Extracted:	05/14/07	Lab ID:	705131-01 x10
Date Analyzed:	05/14/07	Data File:	705131-01 x10.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower	Upper
Germanium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	1,050
Nickel	744
Copper	289
Zinc	<20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M00354, F&BI 705131
Date Extracted:	05/14/07	Lab ID:	I7-177 mb
Date Analyzed:	05/14/07	Data File:	I7-177 mb.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	90	60	125
Bismuth	101	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/07

Date Received: 05/10/07

Project: Metro Self Monitor, PO# M00354, F&BI 705131

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 705135-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/kg (ppm)	<1	<1	nm	0-20
Nickel	mg/kg (ppm)	6.13	6.31	3	0-20
Copper	mg/kg (ppm)	5.07	1.77	96 a	0-20
Zinc	mg/kg (ppm)	13.0	12.9	1	0-20

Laboratory Code: 705135-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	mg/kg (ppm)	20	<1	99	50-150
Nickel	mg/kg (ppm)	20	6.13	102 b	50-150
Copper	mg/kg (ppm)	20	5.07	79 b	50-150
Zinc	mg/kg (ppm)	50	13.0	94 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	20	102	70-130
Nickel	mg/kg (ppm)	20	102	70-130
Copper	mg/kg (ppm)	20	102	70-130
Zinc	mg/kg (ppm)	50	98	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 21, 2007



INVOICE #07ACU0521-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M00354, F&BI 705131 - Results of testing
requested by Gerry Thompson for material submitted on May 10, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (4 day) 60% of \$80.00	<u>48.00</u>
Amount Due	\$ 128.00

FEDERAL TAX ID #

(b) (6)

NP
~~705128~~ 705131
 Send Report To GERARD Thompson
 Company Alaskan Copper works
 Address 628 S. Andersen St
 City, State, ZIP Seattle WA 98134
 Phone # 206 571-6033 Fax # 206 382-8379

SAMPLE CHAIN OF CUSTODY

ME 5/10/07

AI4

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

metro self monitor

m00354

REMARKS

Fax Results

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 4 day

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OC, Cu, Ni, Zn				
m-00354	01	5/9/07	12:30	A20	1											

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

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FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Gerard Thompson</u>	<u>Gerard Thompson</u>	<u>AKC</u>	<u>5/9/07</u>	<u>2:08 PM</u>
Received by: <u>M. Pham</u>	<u>Nhan Pham</u>	<u>FBI</u>	<u>5/10/07</u>	<u>2:08</u>
Relinquished by:				
Received by:				

Samples received at 24 °C

FRIEDMAN & BRUYA, INC.

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May 21, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 10, 2007 from the Metro Self Monitor, PO# M00354, F&BI 705131 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0521R.DOC